

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANAPOLIS

OFFICE MEMORANDUM

DATE: August 26, 1991

TO: C. Steven Poe, Chief  
Solid Waste Insp. Section

THRU: Larry Fedor *LF*  
Ed Stresing *ES*  
Bruce Palin

FROM: *m*  
Mark Hansen, Chemist  
Analytical Section

SUBJECT: Sample Analysis Results

EPA Region 5 Records Ctr.



297834

Attached are the results of the microscopic analysis performed on the samples collected by Tim Hotz on July 29, 1991, from Elmer Carrico's property in Washington, Indiana.

If you have any questions regarding these results, please contact me at (317) 243-5026.

Enclosure

cc: Debbie Dubenetzky  
Tim Hotz

**MICROSCOPIC ANALYSIS OF PARTICULATE  
SAMPLES FROM WASHINGTON, INDIANA**

On July 29, 1991, Mr. Tim Hotz, Office of Solid and Hazardous Waste, Solid Waste Inspections Section, collected three particulate samples. These samples were collected from the property of Mr. Elmer Carrico of Washington, Indiana, as follows (with numbers given them by Mr. Hotz in parentheses following):

Sample 7.3111-boiler tank #1 (1)  
Sample 7.3112-wrap insulation, boiler tank #2 (2)  
Sample 7.3113-tape wrap from duct work (3)

All three samples were submitted July 31, 1991, to the Air Monitoring Branch Laboratory of the Indiana Department of Environmental Management for microscopic analysis for possible asbestos content.

After mounting and dispersing a representative portion of each sample onto a cleaned microscope slide, microscopic analysis was performed using an American Optical polarizing microscope equipped with a dispersion staining objective under 100X magnification. Preliminary analysis was performed using an American Optical Stereomicroscope.

Microscopic differentiation of asbestos fibers from other material was accomplished using dispersion staining, a particle identification technique based on the difference between the refractive index dispersion of a particle and that of the liquid medium in which the particle is immersed. Identification of asbestos fibers using this technique was described in Volume 40, Code of Federal Regulations, Chapter 1, Pt. 763, Subpt. F, App. A (7-1-88 edition).

Microscopic analysis revealed chrysotile asbestos in a concentration greater than one percent present in both Samples 7.3112 and 7.3113. Sample 7.3112 had asbestos only in a section of tarry roofing felt; in the remainder, none was found. No asbestos was found in Sample 7.3111.

Analysis by *Mark W. Hansen*  
Mark W. Hansen

Approved by *Larry Fedor*  
Larry Fedor

Date *August 26, 1991*